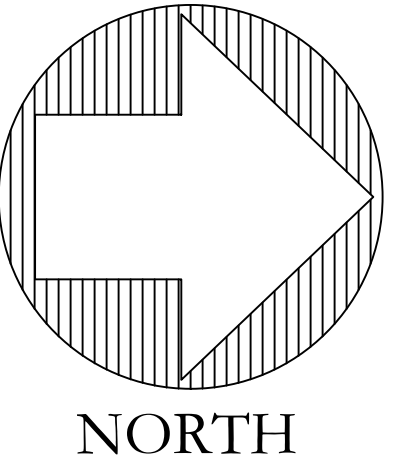
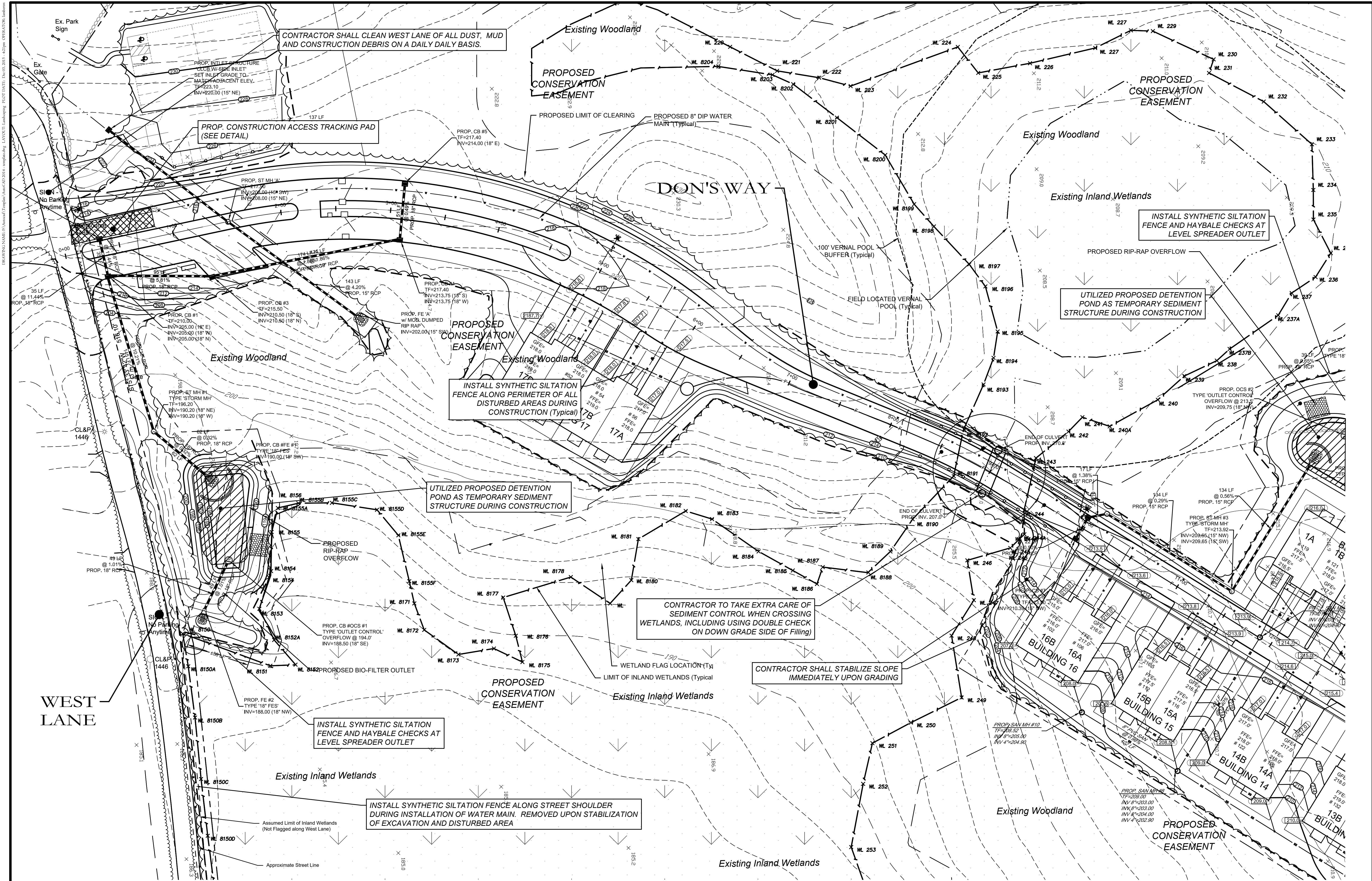




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876 South Main Street
P.O. Box 44
Plainville, CT 06479-0044

Tel: (860) 628-4484
Fax: (860) 620-0198
www.hecole.com

PROJECT NAME:

**THE
"PRESERVE" AT
SHUTTLE
MEADOW**

off West Lane
Kensington, Connecticut

PREPARED FOR:

**THE PRESERVE
SM, LLC**

Sheet Description:

**EROSION AND
SEDIMENT
CONTROL PLAN**

Scale:
40' 20' 0' 20' 40'
1"=40'

Date: August 24, 2021

Project #: 17131A

F.B. #: XXX

Drawn By: BNB

Approved By: BNB

Revisions:

Date:	Descriptions:

Sheet #:

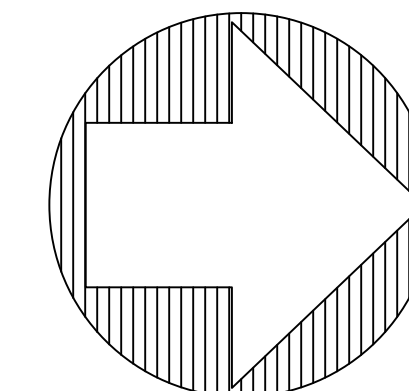
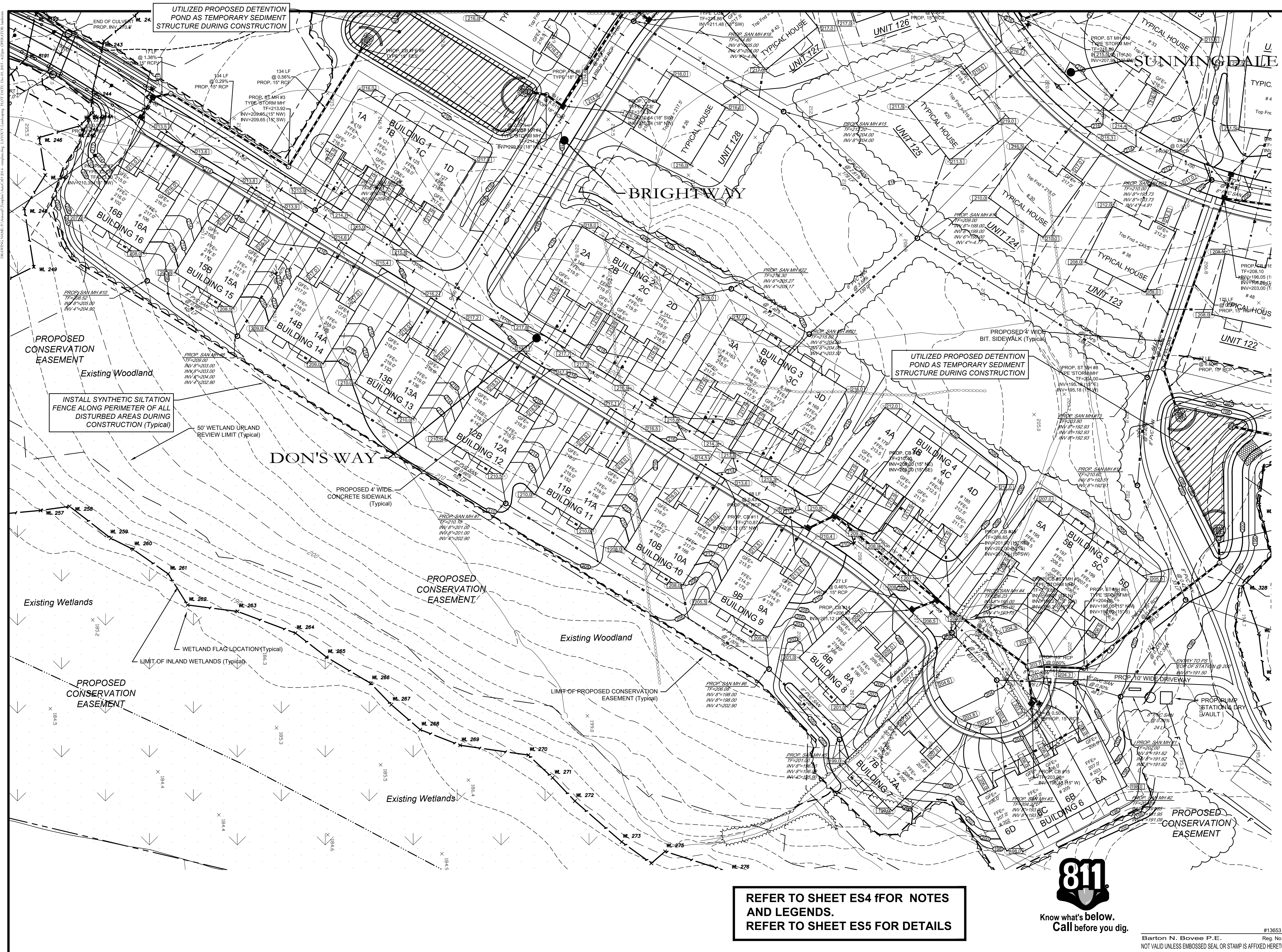
ES1

**REFER TO SHEET ES4 FOR NOTES
AND LEGENDS.
REFER TO SHEET ES5 FOR DETAILS**



Know what's below.
Call before you dig.

#13653
Barton N. Bovee P.E.
Reg. No.
NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO



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PROJECT NAME:

THE "PRESERVE" AT SHUTTLE MEADOW

off West Lane
Kensington, Connecticut

PREPARED FOR:

THE PRESERVE
SM, LLC

Sheet Description:

EROSION AND SEDIMENT CONTROL PLAN

Scale: 

Date: August 24, 2021

Project #: 1713A	F.B. #: XXX
Drawn By: BNB	Approved By:

Revisions:

Date:	Descriptions:
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Sheet #:

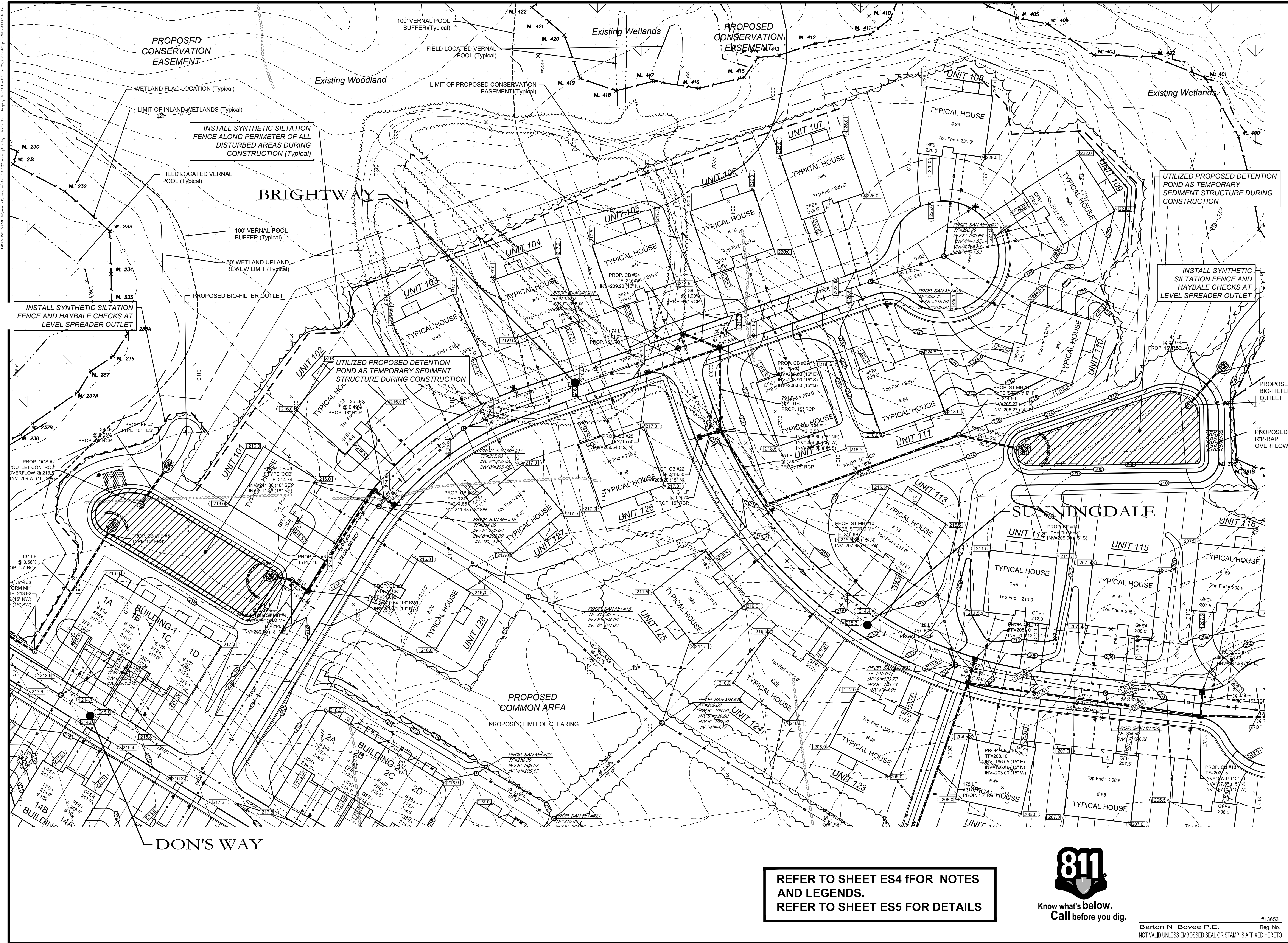
ES2

REFER TO SHEET ES4 fFOR NOTES
AND LEGENDS.
REFER TO SHEET ES5 FOR DETAILS



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PROJECT NAME:

THE "PRESERVE" AT SHUTTLE MEADOW

off West Lane
Kensington, Connecticut

PREPARED FOR:

THE PRESERVE SM, LLC

Sheet Description:

SITE DEVELOPMENT PLAN

Scale:
40' 20' 0' 20' 40'
1"=40'

Date: August 24, 2021

Project #: 1713A F.B. #: XXX

Drawn By: BNB Approved By: BNB

Revisions:

Date:	Descriptions:

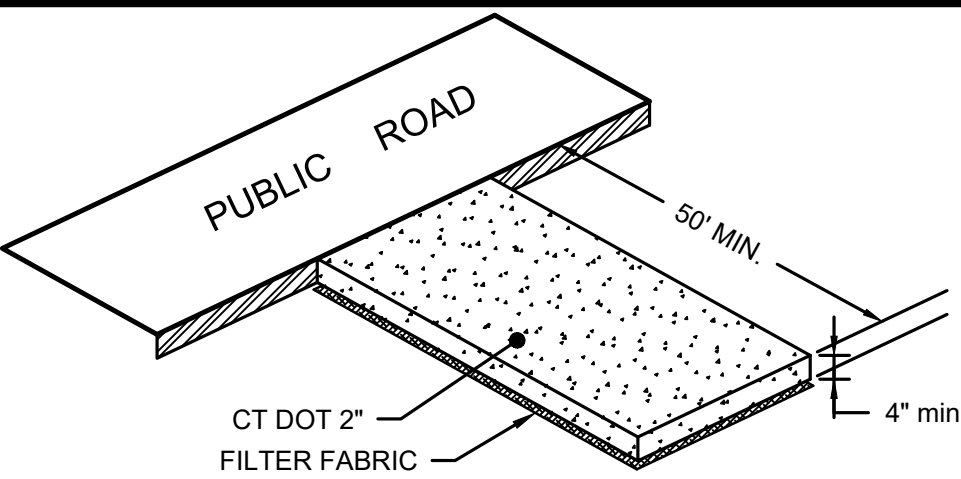
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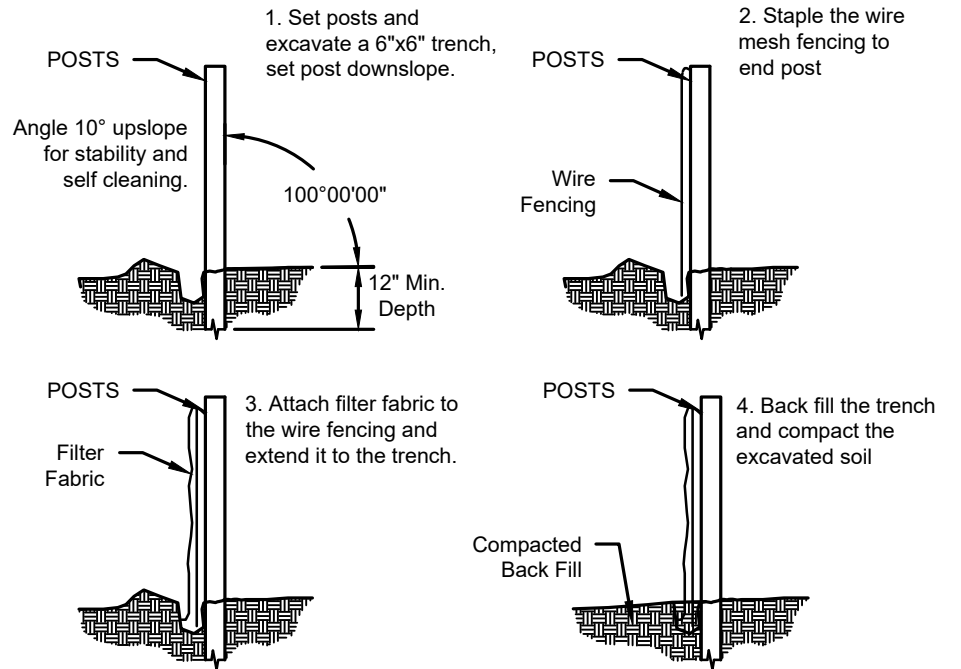
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Know what's below.
Call before you dig.

#13653
Barton N. Bovee P.E. Reg. No.
NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO

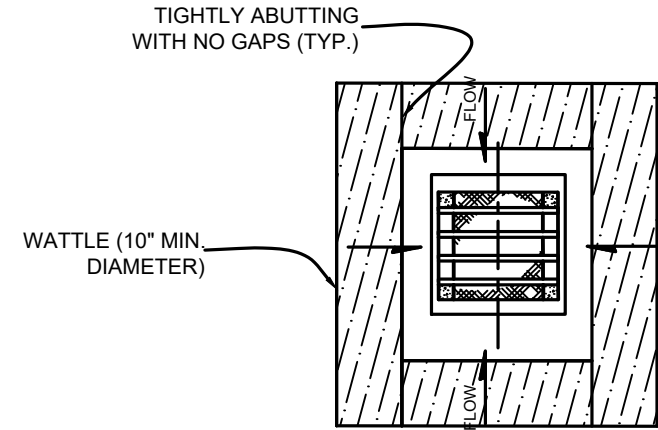
REFER TO SHEET ES4 fFOR NOTES
AND LEGENDS.
REFER TO SHEET ES5 FOR DETAILS



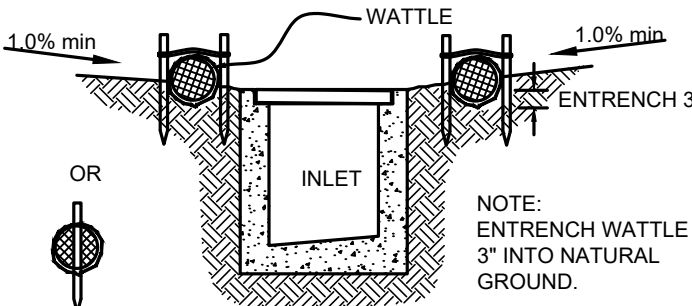
CONSTRUCTION ENTRANCE DETAIL
N.T.S.



SEDIMENTATION BARRIER DETAIL
N.T.S.

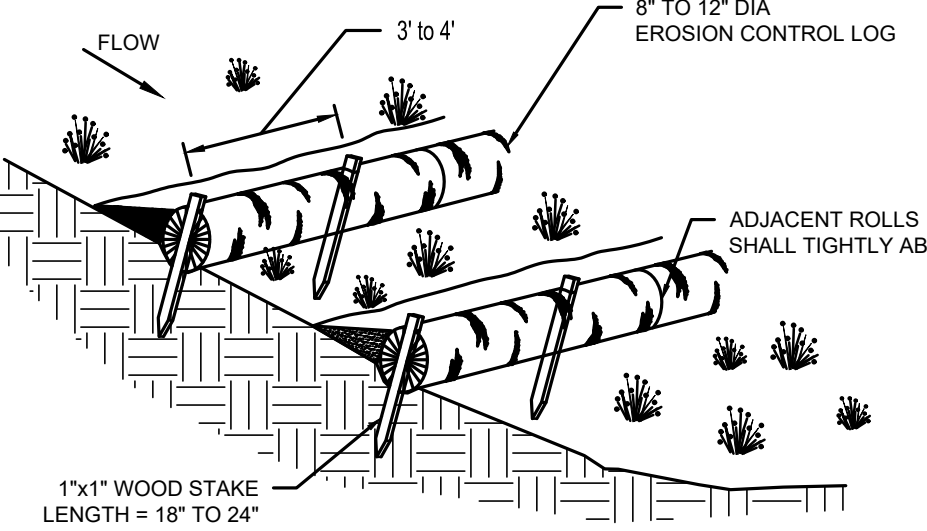


PLAN VIEW



NOTE:
INSTALLATION OF WATTLE STAKES MAY VARY

CATCH BASIN WATTLE PROTECTION
N.T.S.



- GENERAL NOTES:
1. THE WATTLES SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF TWO (2) INCHES.
 2. WATTLES SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
 3. ON SLOPES, WATTLES SHOULD BE INSTALLED ON CONTOUR WITH A SLIGHT DOWNWARD ANGLE AT THE END OF THE ROW IN ORDER TO PREVENT PONDING AT THE MID SECTION.
 4. RUNNING LENGTHS OF WATTLES SHOULD BE ABUTTED FIRMLY TO ENSURE NO LEAKAGE AT THE ABUTMENTS.
 5. SPACING FOR SLOPE INSTALLATIONS SHOULD BE DETERMINED BY SITE CONDITIONS. SLOPE GRADIENT AND SOIL TYPE ARE THE MAIN FACTORS. A GOOD RULE OF THUMB IS:

- 1:1 SLOPES = 10 FEET APART
2:1 SLOPES = 20 FEET APART
3:1 SLOPES = 30 FEET APART
4:1 SLOPES = 40 FEET APART.

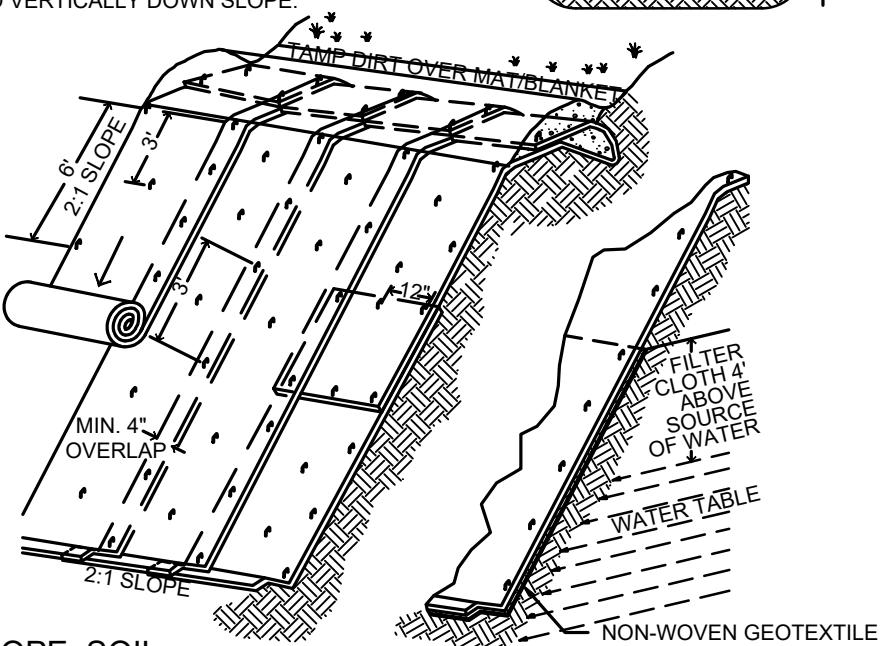
ADJUSTMENTS MAY HAVE TO BE MADE FOR THE SOIL TYPE: FOR SOFT, LOAMY SOILS - ADJUST THE ROWS CLOSER TOGETHER, FOR HARD, ROCKY SOILS - ADJUST THE ROWS FURTHER APART.

6. A SECONDARY WATTLE PLACED BEHIND THE ABUTMENT OF TWO WATTLES IS ENCOURAGED ON STEEP SLOPES OR WHERE JOINTS HAVE FAILED IN THE PAST.
7. USE WOOD STAKES TO SECURE THE WATTLES. 1/2" TO 5/8" REBAR IS ALSO ACCEPTABLE. BE SURE TO USE A STAKE THAT IS LONG ENOUGH TO PROTRUDE SEVERAL INCHES ABOVE THE WATTLE. 18" IS A GOOD LENGTH FOR HARD, ROCKY SOIL. FOR SOFT LOAMY SOIL USE A 24" STAKE. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE. LEAVING 2 - 3 INCHES OF THE STAKE PROTRUDING ABOVE THE WATTLE.

EROSION CONTROL LOG SLOPE PROTECTION
N.T.S.

- NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
 2. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

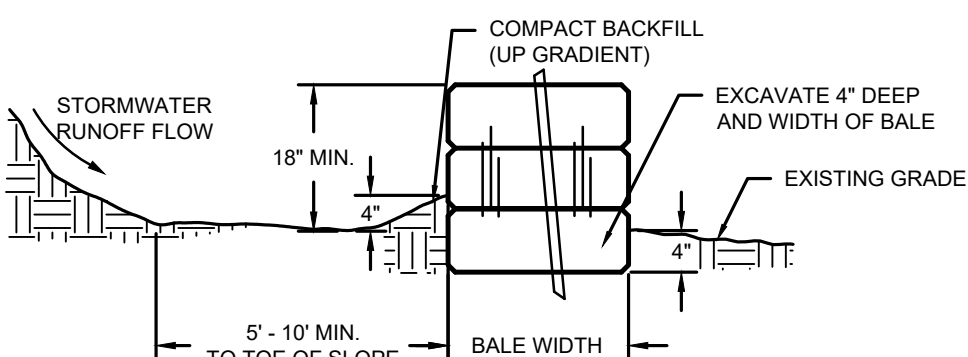
MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWN SLOPE.



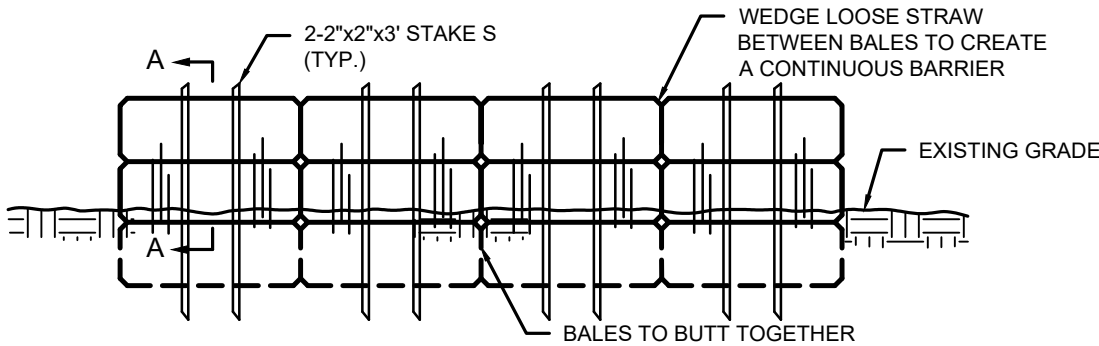
TYPICAL SLOPE SOIL
STABILIZATION

EROSION BLANKET & REINFORCEMENT
MAT SLOPE INSTALLATION
N.T.S.

- NOTES:
1. BALE BARRIER INSTALLATION SHALL FOLLOW THE CONTOUR OF THE LAND. THE LAST BALES SHALL WING UPSLOPE TO ENSURE PROTECTION.
 2. BALE BARRIERS SHALL BE UTILIZED TO INTERCEPT SMALL AMOUNTS OF SEDIMENT FROM DRAINAGE AREAS ONE ACRE IN SIZE OR LESS. MAX. SLOPE BEHIND A BARRIER MUST BE LIMITED TO 2H:1V.
 3. BALE BARRIERS SHALL BE INSPECTED PERIODICALLY. AFTER STORM EVENTS GREATER THAN 1" OF RAINFALL AND SHALL BE REMOVED AND REPLACED AFTER 3 MONTHS EXCEPT AS OTHERWISE DIRECTED BY THE ENGINEER OR ENFORCEMENT OFFICIAL. BALES SHALL NOT BE REMOVED UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

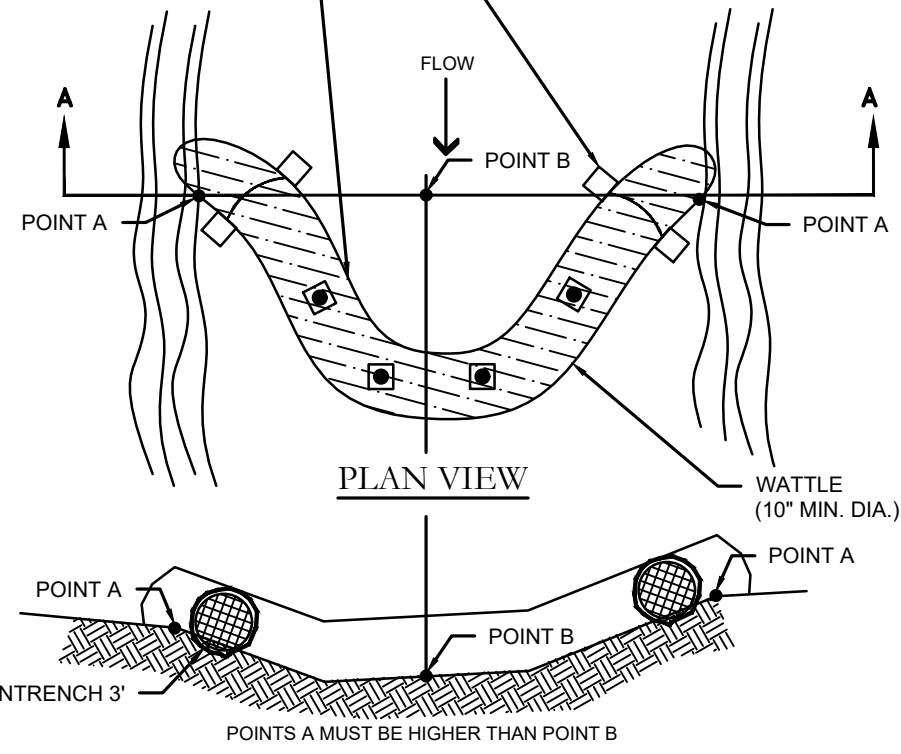


SECTION A-A



STRAW BALE BARRIER DETAIL
N.T.S.

STAKES SHOULD BE DRIVE THROUGH THE MIDDLE OF THE WATTLE. LEAVING 2-3 INCHES OF THE STAKE PROTRUDING ABOVE THE WATTLE. A HEAVY SEDIMENT LOAD WILL TEND TO PICK THE WATTLE UP AND COULD PULL IT OFF THE STAKES IF THEY ARE DRIVE DOWN TOO LOW. IT MAY BE NECESSARY TO MAKE A HOLE IN THE WATTLE WITH A PICK END OF YOUR MADDOX IN ORDER TO GET THE STAKE THROUGH THE STRAW. WHEN STRAW WATTLES ARE USED FOR FLAT GROUND APPLICATIONS, DRIVE THE STAKES STRAIGHT DOWN. WHEN INSTALLING WATTLES ON SLOPES, DRIVE THE STAKES PERPENDICULAR TO THE SLOPE.

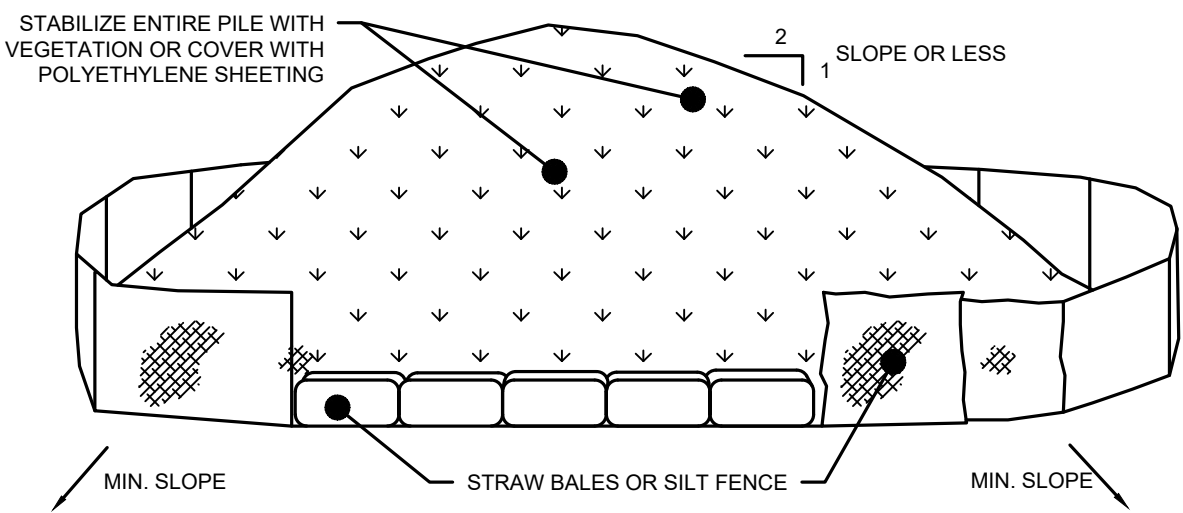


SECTION A-A

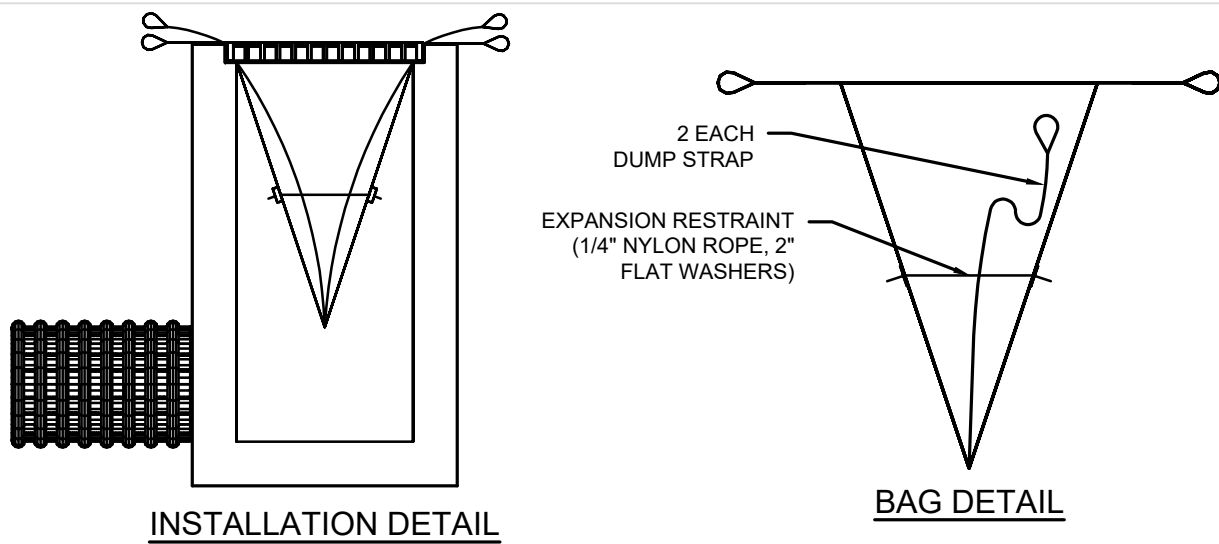
- NOTES:
1. THE CONTRACTOR SHALL INSPECT DIKES EVERY TWO WEEKS AND AFTER SIGNIFICANT STORM EVENTS AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
 2. DIKES ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ESTABLISHED.

WATTLE DIKE DITCH INSTALLATION
N.T.S.

- NOTES:
1. AREA CHOSE FOR STOCKPILING SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED WITH POLYETHYLENE SHEETING.
 4. TO BE USED WHERE TOPSOIL IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TOPSOIL IS APPLIED TO SUBSOILS THAT ARE DRAUGHTY (HAVING LOW AVAILABLE MOISTURE FOR PLANTS), STONEY SALTY, HAVE LOW PERMEABILITY, OR ARE EXTREMELY ACID. IT IS ALSO USED TO BACKFILL AROUND SHRUB AND TREE TRANSPLANTS. PRESERVATION OF EXISTING TOPSOIL IS BENEFICIAL FOR ALL TYPES OF LAWN OR ORNAMENTAL PLANTINGS.
 5. TEMPORARY STOCKPILING STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH NONVEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION, MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS AND REQUIRED PERIOD OF USE.
 6. SEE EROSION AND SEDIMENT CONTROL PLAN FOR LOCATIONS.

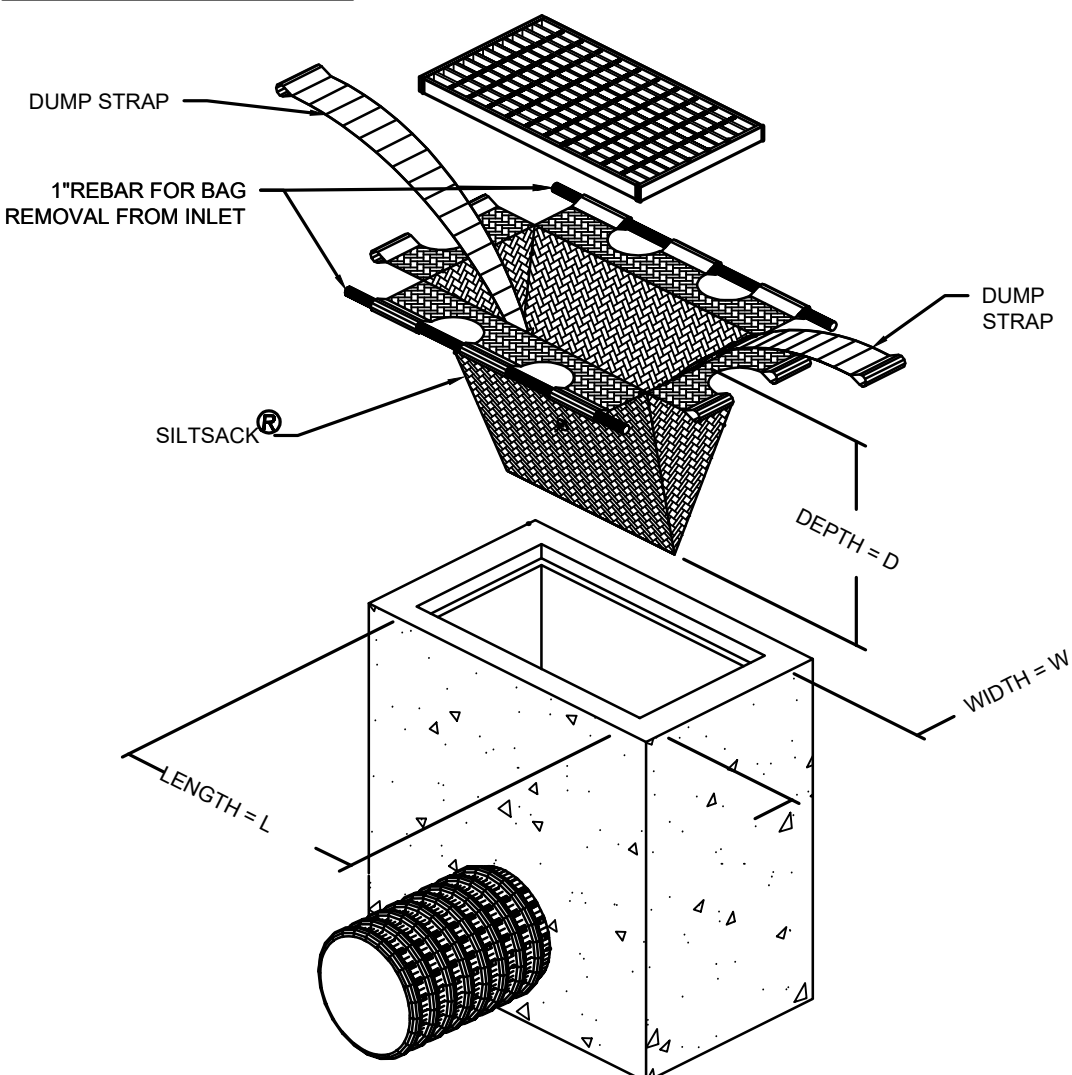


SOIL STOCKPILE DETAIL
N.T.S.



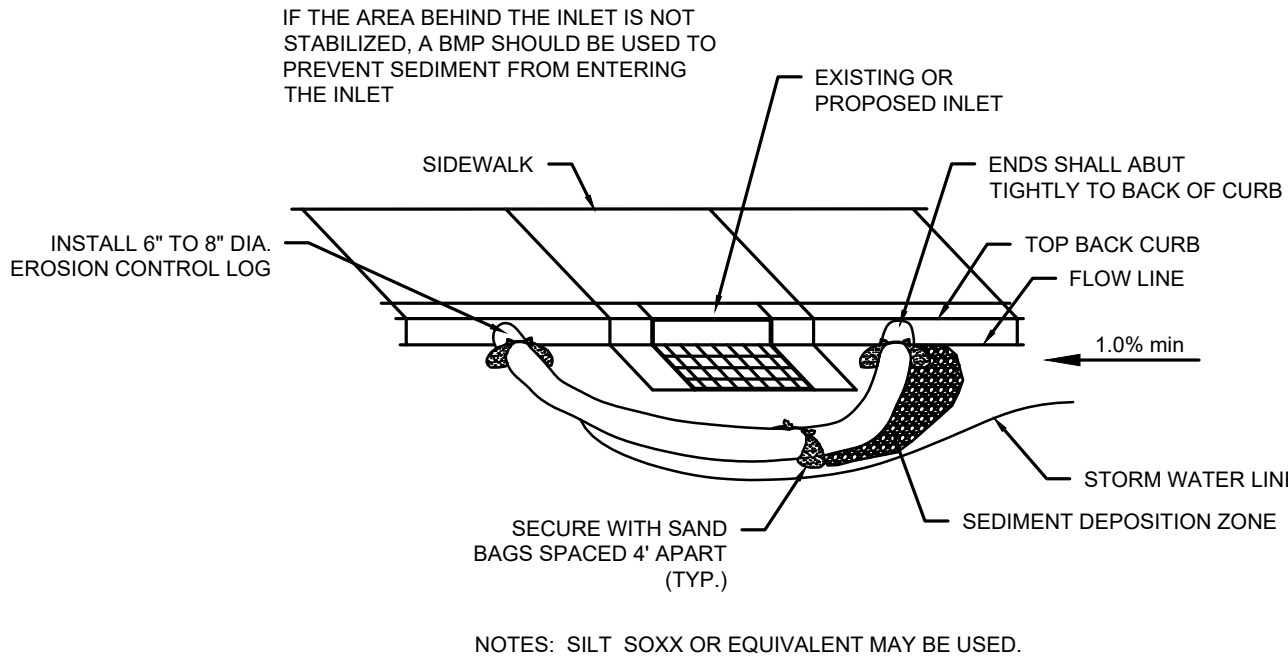
INSTALLATION DETAIL

BAG DETAIL



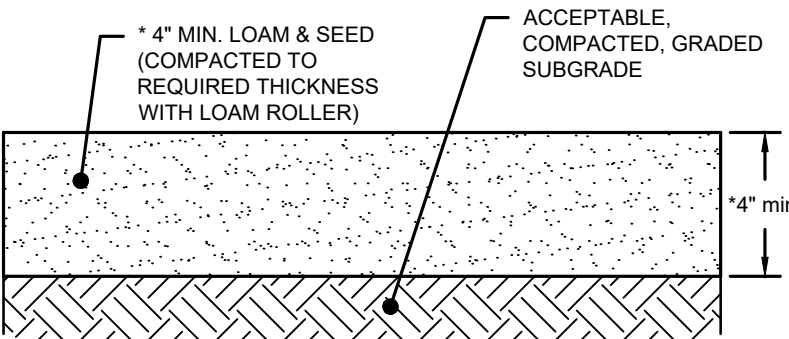
- NOTES:
1. AVAILABLE FROM ACF ENVIRONMENTAL 48 OLD GRAYS BRIDGE ROAD BROOKFIELD, CT 06904. (203)313-9002

SILTSOCK INLET CONTROL DEVICE
N.T.S.



EROSION CONTROL LOG - CURB INLET PROTECTION
N.T.S.

- GENERIC SEED MIXTURE or SESC MANUAL SEED MIXTURE
- 25-30% KENTUCKY BLUE GRASS
80% GERMINATION
-30-35% RED RESCUE 90% GERMINATION
-30-40% PERENNIAL RYE GRASS MIXTURES
85% GERMINATION
- PER FIGURE PS-2 & PS-3 OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL MANUAL



LOAM & SEED DETAIL
N.T.S.

SEDIMENT TRAP NOTES:

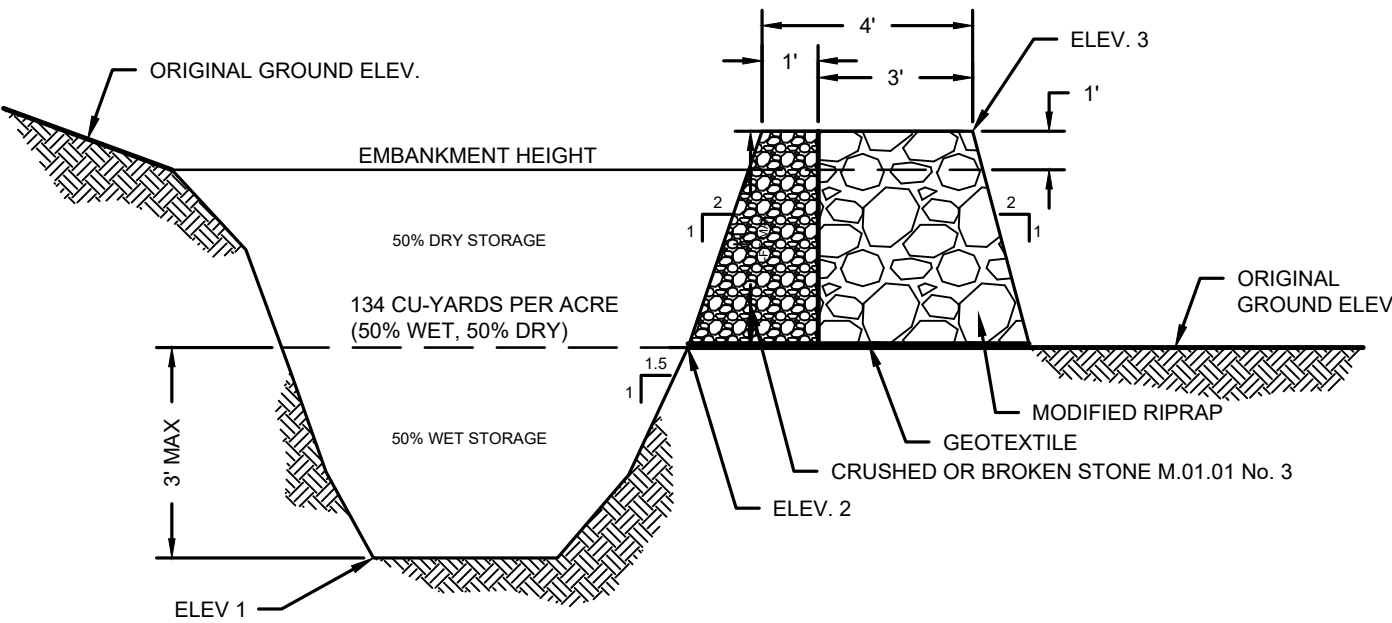
1. ALL WORK SHALL CONFORM TO CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
2. VOLUME PROVIDED SHALL BE 134 CU-YARDS PER ACRE WITH 50% DRY AND 50% WET STORAGE. (BELOW OUTLET). TYPICAL MAXIMUM DRAINAGE AREA IS 5 ACRES.
3. USE ONLY FOR TREATMENT OF ONSITE RUNOFF.
4. NEVER CONSTRUCT A SEDIMENT TRAP ON A FLOWING STREAM OR IN WETLANDS.
5. TRAPS SHOULD NOT BE LOCATED CLOSER THAN 20 FEET FROM A PROPOSED BUILDING FOUNDATION OR EDGE OF ROAD.
6. A RECTANGULAR AND SHALLOW TRAP WITH A LENGTH-TO-WIDTH RATIO OF 2:1 OR GREATER IS RECOMMENDED.
7. MAXIMUM EMBANKMENT HEIGHT SHALL BE 3 FEET MEASURED ON THE DOWNSTREAM SIDE. THE MINIMUM TOP EMBANKMENT WIDTH SHALL BE 4 FEET. SIDE SLOPES FOR THE EMBANKMENT AND THE EXCAVATED AREAS SHALL BE 2:1 OR FLATTER.
8. FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTS UNDESIRABLE MATERIAL.
9. INLETS TO SEDIMENT TRAP SHALL ENTER AT THE FURTHEST DISTANCE TO OUTLET DESIGNED SO AS NOT TO ERODE SIDE SLOPES OF SEDIMENT BASIN.

INSTALLATION NOTES:

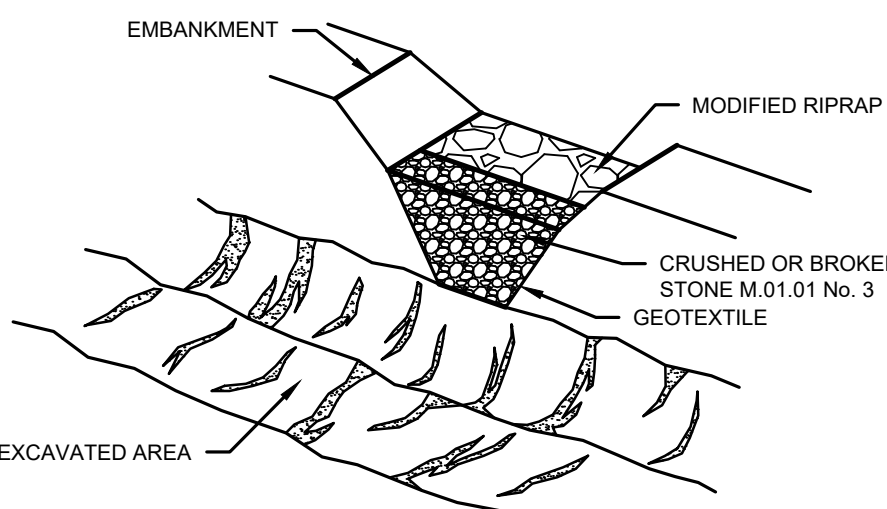
1. SEDIMENT TRAPS, ALONG WITH OTHER PERIMETER CONTROLS, SHALL BE INSTALLED BEFORE ANY LAND DISTURBANCE TAKES PLACE IN THE DRAINAGE AREA.
2. THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED AND STRIPPED OF ANY VEGETATION AND ROOTS.
3. A GEOTEXTILE SHOULD BE PLACED AT THE STONE/SILT INTERFACE TO ACT AS A SEPARATOR.

MAINTENANCE NOTES:

1. SEDIMENT SHALL BE REMOVED FROM THE TRAP WHEN THE WET STORAGE VOLUME IS REDUCED BY HALF. SEDIMENTS REMOVED MUST BE PROPERLY DISPOSED.
2. THE CONTRACTOR SHALL INSPECT SEDIMENT TRAP EVERY TWO WEEKS AND AFTER ANY SIGNIFICANT STORM EVENT; ROCKS CLOGGED WITH SEDIMENT SHALL BE CLEARED OR REPLACED.
3. SEDIMENT TRAPS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREAS ARE STABILIZED.
4. IF SEDIMENT TRAPS ARE REMOVED, THE DISTURBED AREA SHALL BE SEEDED, CRIMPED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE CITY.



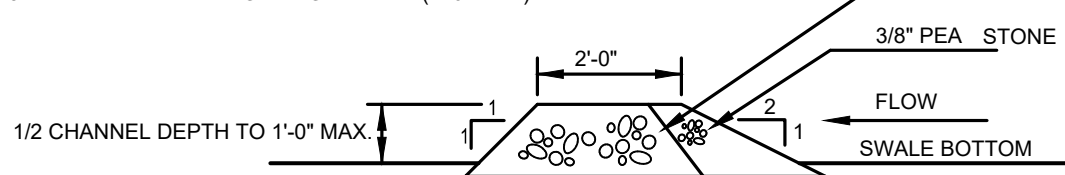
SEDIMENT TRAP - CROSS SECTION OF OUTLET
N.T.S.



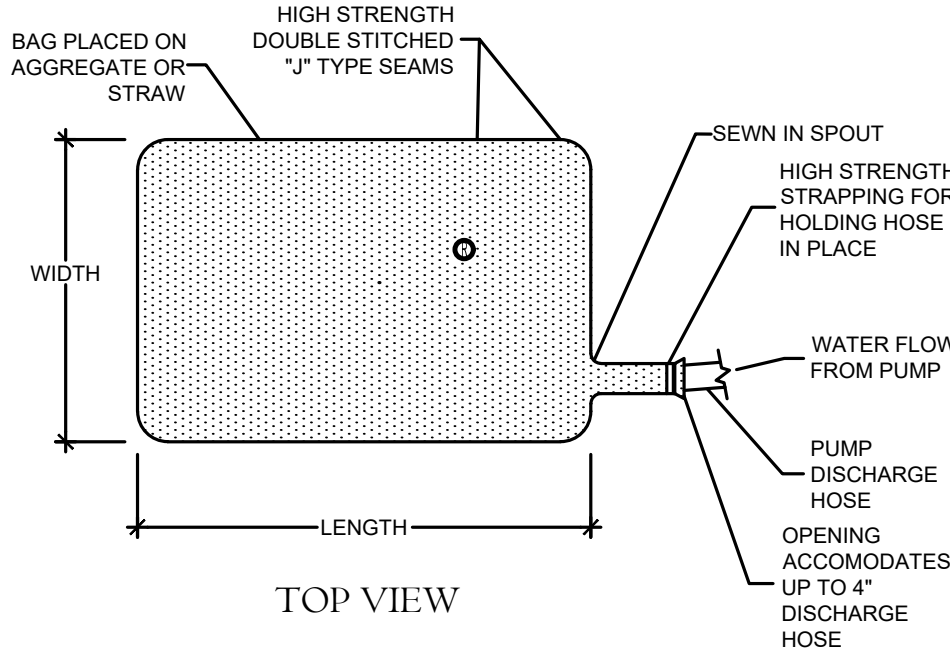
SEDIMENT TRAP - OUTLET (PERSPECTIVE VIEW)
N.T.S.

NOTES:

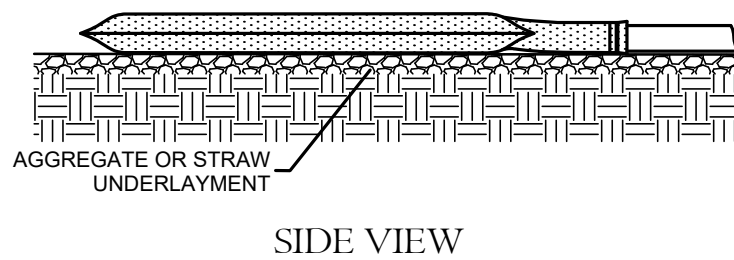
1. INSTALL CRUSHED STONE CHECK DAMS ON SWALES WITH SLOPES GREATER THAN 5% AT 100' INTERVALS.
2. SWALE SLOPES AS NOTED ON PLANS ARE MINIMUM SLOPES.
3. SWALE DEPTH AS NOTED ON PLANS (1'-6" MIN.)



TYPICAL CRUSHED STONE CHECK DAM
N.T.S.



TOP VIEW



SIDE VIEW

NOTES:

1. AVAILABLE FROM ACF ENVIRONMENTAL 48 OLD GRAYS BRIDGE ROAD, BROOKFIELD, CT 06904. (203)313-9002

DIRTBAG SILT CONTROL SYSTEM
N.T.S.



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Sheet Description:

SOIL EROSION &
SEDIMENT
CONTROL
DETAILS

Scale:

N.T.S

Date: August 24, 2021

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Drawn By: Staff

Approved By: BNB

Revisions:

Date:	Descriptions:
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Sheet #:

ES5